

Appl. No. 09/938,892  
Amdt. Dated Oct. 8, 2003  
Reply to Office action of September 9, 2003

### Amendments to the Claims

This listing of claims will replace the prior listing of claims in the application.

#### Listing of Claims:

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Claim 1 (withdrawn): A method for forming a base of a heat sink on which heat dissipating fins are attached, the base comprising a body made of a first metal having a first heat conductivity and a core made of a second metal having a second heat conductivity higher than the first heat conductivity, the method comprising the following steps:

- a) defining an opening in the body which has a shape corresponding to a shape of the core and a size slightly less than a size of the core;
- b) pressing the core into the opening of the body;
- c) stamping the core to cause it to plastically deform in radial directions and thereby become firmly combined with the body.

Claim 2 (withdrawn): The method as claimed in claim 1, further comprising the following step after step c): d) removing any burring of the core flowing out from the opening such that surfaces of the core and the body are coplanarly smooth.

Claim 3 (withdrawn): The method as claimed in claim 2, wherein the opening is circular and the core is circular, and a diameter of the opening is slightly less than a diameter of the core.

Claim 4 (withdrawn): The method as claimed in claim 3, wherein the opening is a through opening and is defined in a center of the body.

Claim 5 (withdrawn): The method as claimed in claim 1, wherein the body

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is made of aluminum and the core is made of copper.

Claim 6 (currently amended): A method for forming a heat sink for dissipating heat generated by an electronic device, the method comprising the following steps:

- A) a) preparing a base (10), the preparing comprising the steps of:
- i) providing a body (11) made of a first metal having a first heat conductivity, said body (11) being formed with an opening (111) therein;
  - ii) providing a core (12) made of a second metal having a second heat conductivity higher than the first heat conductivity, said core (12) having a shape corresponding to a shape of the opening (111) and a size slightly larger than a size of the opening (111), said core (12) having a bottom face (121) adapted for thermally contacting the electronic device;
  - iii) pressing the core (12) into the opening (111); and
  - iv) stamping the core (12) to cause it to plastically deform in radial directions, whereby the core (12) and the body (11) are securely connected together; and
- b) Preparing heat dissipating fins (20) and attaching the fins (20) to a ~~top surface of~~ the base (10).

Claim 7 (original): The method as claimed in claim 6, further comprising the following step after step iv): v) removing any burring of the core (12) flowing out from the opening (111) such that surfaces of the core (12) and the body (11) are coplanarly smooth.

Claim 8 (original): The method as claimed in claim 6, wherein the opening

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(111) is circular and the core (12) is circular, and a diameter of the opening (111) is slightly less than a diameter of the core (12).

Claim 9 (original): The method as claimed in claim 8, wherein the opening (111) is a through opening and is defined in a center of the body (11).

Claim 10 (original): The method as claimed in claim 6, wherein the body (11) is made of aluminum and the core (12) is made of copper.

Claim 11 (new): A heat sink comprising a base (10) including a body (11) defining a through opening (111) in a center portion, and a core (12) being plastically deformed to be snugly and tightly retainably received in the opening (111), said core providing a bottom face (121) adapted to be engaged with an heat-generating device, a plurality of heat dissipation fins (20) attached to a top face of the base (10), wherein said body (11) is made of a first material having a first conductivity thereof and said core (12) is made of a second material having thereof a second conductivity superior to said first conductivity.

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Concluded